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	27 September 1957
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MEMORANDUM FOR: THE RECORD	
SUBJECT : Visit to	
1. Time and Place of Meeting:	23 & 24 September 1957 in Cambridge,
2. Attendence:	25X1
	-
a. P-77 - Research Progress	
The undersigned carrie Devence Carbon Botton Transmitter whi the next two months. This work and i being restricted to  will be doing	ich will analize during 25X1
we have set no specific delivery date  The radio switch syste out when the undersigned makes his no	m RS-1 will be ready to be checked axt trip to Cambridge.
This project consists of repo with the RT-2 series of transmitters. from 6 volts DC. The basic philosoph receiver will be maintained but may of	At present it is estimated that four to up but the delivery date will not be
Western Electric Transistors. Due to of transisters and low priori	of the higher powered high frequency of the large demand for these types ty as for as the supply rating is 25X1 25X1
in which this transister might be in possibly they should put in orders	ncorporated. They had suggested that for these items and then when they had



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an order number, the agency, through its channels could possibly have the supplier rush through order. Since his return from this trip, the undersigned has beenned that the Agency has a way of procurring these types of transisters and can then turn them over to the contractors. These two methods, at this time, appear to be the most encouraging hits of information for the procurrment of up-to-date components that the undersigned has heard of since coming with this Agency. It is the opinion of the undersigned that this type of approach should be encouraged since it appears that the yaild will merit the effort.

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### b. P-79-B - 5 MC Tranceiver

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has reported that they found a 15 db improvement in the use of the Shoe Antenna over the Ferrite Rod antenna. Theoretically, this would represent over all improvement of 30 db but since the receiver utilizing the Ferrite Rod antenna was already down in the noise, the total improvement will be less than 20 db. The two transceivers will be set up for use with the Shoe Antenna and will be shipped to Washington in about two weeks.

## c. P-163-D - Survedlance Transmitter

The work being done under this project at the present time is the development of a crystal control FM transmitter. The transmitter being developed at this time will be on a frequency of 74 MC and will have a deviation of 20 MC. The major effort of this project, at one time, was the development of a one watt FM transmitter. It has since been diverted to put the suphases on a crystal control high powered transmitter. Upon completion of this crystal control study, the contractor will then be able to submit several possible avenues of approach to the high powered crystal control FM transmitter.

# d. P-163-E - Surveilance Transmitter - 86-3

Initially, the plans called for the use of tantalum ospecitors but since that time reports have been issued to the effect that the electrolitic ospecitors are more reliable. In view of this it has been decided to use the electrolicities. At present, transformers have been ordered to be considered for use in the ST-3 and the sudio circuitry is being improved in gain and in design to give a more constant drive to the oscilator.

# e. P-163-F - Surveilance Transmitter BT-2

Since the undersigned returns to Washington, it has developed that the contract is being held up do to negotiation in the amount of overhead that is to charge on all their contracts.

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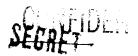
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f. P-193 - RT - Transmitters	
The undersigned carried to a philette radio which is to be modified for use in a safe house. The modification consists of installing an RF-SH transmitter and power supply within the case. The transmitter will be on when the radio is off and vice-vares. Since the radio will be used in a controlled situation, the problem of concentrant is very simple. The radio concentrant will be completed within two weeks and will be sent to Washington.	25X <sup>,</sup>
The undersigned personally checked all of the power supplies for use with the RT-2B. Four of the seven are to be receivers and the one on RT-2B transmitter. All of the above was hald carried to be identification by the undersigned.	
g. P-212 - Microphone Pressplifter	
This contract has not been received for the same reason stated on P-163-F.	
h. AH-43-Typewriter Surveilance Trapenditor	
A packaged bread board system is to be ready for demonstration in the end of November 1957 at which time the people from send will get together to incorporate the various parts of the system and after it has passed inspection it will be brought to Washington for demonstration.	25X
1. Alf-luk - Carrier Current System in Condenser Can	
A brend board model of a detector, for 25 KC to operate the Devence passive switch, has been developed for use with the carrier current system. This unit will be packaged and delivered to Hashington in about two seeks.	: 
showed the undereigned graphs on the attenuation of hasmonics that can be obtained when the experimental Burnell Filter is used. The detail report on this filter will be put in the progress report written at the end of this month. The general results are that the cervier current examination will no longer be detectible on standard radios plugged into the same line.	25X

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### Distributions

Orig. P-77 P-79-B- 1 P-163-D-1 P-163-E-1 P-163-F-1 P-193 -1 P-212 -1 AH-43 -1 AH-44 -1 Chrono.-1

AFiat

